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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,603	01/27/2004	Robert Gregory Wagoner	03GP9129	3390
7590 10/09/2007 Paul D. Greeley, Esq. Ohlandt, Greeley, Ruggiero & Perle, L.L.P.			EXAMINER	
			CAVALLARI, DANIEL J	
One Landmark Square, 10th Floor Stamford, CT 06901-2682			ART UNIT	PAPER NUMBER
			2836	
			MAIL DATE	DELIVERY MODE
			10/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/766,603	WAGONER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Daniel J. Cavallari	2836			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION B6(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 20 Au	ugust 2007.				
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 49	53 O.G. 213.			
Disposition of Claims					
4) ⊠ Claim(s) 11-16 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) ⊠ Claim(s) 11-16 is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.	·			
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 10.	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive i (PCT Rule 17.2(a)).	ion No ed in this National Stage			
	•				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/20/2007 has been entered.

Response to Arguments

Applicant's arguments with respect to claims 11-16 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11-13 & 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kojima (JP 06189469 A) in view of Kageyama (US 5,612,581).

In regard to Claim 11

Kojima teaches:

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 A first contactor (2A) having an input selectively coupled to a first power converter (3A,4A) (See Figure 4).

- A second contactor (2B) having an input selectively coupled to a second power converter (3B, 4B) (See Figure 4).
- A controlled current path (8A-C) coupled to the output of the first and second contactor and to a load (10) for providing uninterrupted power to the load during a transfer between first and second power converters (See Abstract).

Kojima teaches a plurality of batteries, each coupled to the converter but fails to teach a single battery coupled to the first and second converters using diodes.

Kageyama teaches a power supply system incorporating parallel converters wherein a single diode connected battery is used to supply backup power to the plurality of converter circuits instead of each converter having there own battery (See Figure 6).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate a single battery into the power supply system of Kojima as taught by Kageyama instead of providing each converter with its own battery. The motivation would have been to reduce the size and cost of the converter by replacing the multiplicity of batteries with a single battery.

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Kojima further teaches:

In regard to Claim 12

• The first and second contactors comprising a pair of contactors, read on by 7A &

7B (See Figure 4).

In regard to Claim 13

The first and second contactors (2A, 7A & 2B, 7B) being separate contactors.

In regard to Claim 16

Incorporating all arguments above, Kojima fails to teach capacitors on the DC buses of the converters.

Kageyama teaches capacitors on the DC buses of the converters (See Figure 4). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the capacitors on the DC converter bus as taught by Kageyama into the power supply system of Kojima since it is well known in the art that such capacitors are beneficial in smoothing and filtering the DC power providing a cleaner signal at the output.

Claims 14 & 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kojima in view of Kageyama and Heebner (US 5,353,665).

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Kojima teaches the use of a contactor (2A, 2B) (See Figure 4 & Abstract) but fails to explicitly teach the type of contactor used.

Heebner teaches the use of a multi-pole break before make type relay for use of power delivery and further explains that "Most relays are multi-pole break before make type..." (See Column 5, Lines 15-30).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the multi pole make break before make relay in place of the contactors taught by Kojima who fails to explicitly teach the type of contactors used. The motivation would have been to use a switch that is well known in the art and readily available.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Cavallari whose telephone number is (571)272-8541. The examiner can normally be reached on Monday-Friday 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on (571)272-2800 x36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel Cavallari

September 26, 2007

MICHAEL SHERRY
SUPERVISORY PATENT EXAMINED